

## Connecting via Winsock to STN

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LOGINID:SSSPTA1642BJF

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

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FILE 'HOME' ENTERED AT 12:00:28 ON 10 JAN 2007

```
=> file reg
COST IN U.S. DOLLARS
          SINCE FILE      TOTAL
          ENTRY        SESSION
FULL ESTIMATED COST          0.21      0.21
```

FILE 'REGISTRY' ENTERED AT 12:00:36 ON 10 JAN 2007  
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STRUCTURE FILE UPDATES: 9 JAN 2007 HIGHEST RN 917076-17-6  
DICTIONARY FILE UPDATES: 9 JAN 2007 HIGHEST RN 917076-17-6

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TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

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conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and  
predicted properties as well as tags indicating availability of  
experimental property data in the original document. For information  
on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

```
=> E "3-OXODODECANOYL)HOMOSERINE LACTONE"/CN 25
E1      1 3-OXODIPROPYLACETIC ACID/CN
E2      1 3-OXODODECANOIC ACID/CN
E3      0 --> 3-OXODODECANOYL)HOMOSERINE LACTONE/CN
E4      1 3-OXOECODYSONE 2,22-DIACETATE/CN
E5      1 3-OXOECODYSTEROID 3A-REDUCTASE/CN
E6      1 3-OXOECODYSTEROID 3B-REDUCTASE/CN
E7      1 3-OXOEDPETISININE/CN
E8      1 3-OXOENANTHIC ACID/CN
E9      1 3-OXOEREMOPHILA-1,7(11)-DIEN-12,8B-OLIDE/CN
E10     1 3-OXOERGOSTANE/CN
E11     1 3-OXOESTR-4-ENE-17B-CARBONITRILE/CN
E12     1 3-OXOESTR-4-ENE-17B-ISOCARBONITRILE/CN
E13     1 3-OXOESTR-5(10)-ENE-17B-CARBONITRILE/CN
E14     1 3-OXOESTRA-4,9,11-TRIENE-17B-CARBONITRILE/CN
E15     1 3-OXOESTRA-4,9-DIENE-17B-CARBONITRILE/CN
E16     1 3-OXOESTRA-5(10),9(11)-DIENE-17B-CARBONITRILE/CN
E17     1 3-OXOEUCOSTEROL/CN
E18     1 3-OXOEUDESMA-4,11-DIEN-12-OIC ACID/CN
E19     1 3-OXOFLAVAN/CN
E20     1 3-OXOFLAVAN OXIME/CN
E21     1 3-OXOFRIEDELAN-25-AL/CN
E22     1 3-OXOFRIEDELAN-25-OL/CN
E23     1 3-OXOFRIEDELAN-4A-OL/CN
E24     1 3-OXOFRIEDELANE-20A-CARBOXYLIC ACID/CN
E25     1 3-OXOFUSIDIC ACID/CN
```

```
=>
Connecting via Winsock to STN
```

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1642BJF

PASSWORD:

\* \* \* \* \* RECONNECTED TO STN INTERNATIONAL \* \* \* \* \*  
SESSION RESUMED IN FILE 'REGISTRY' AT 12:02:29 ON 10 JAN 2007  
FILE 'REGISTRY' ENTERED AT 12:02:29 ON 10 JAN 2007  
COPYRIGHT (C) 2007 American Chemical Society (ACS)

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.90	1.11

=> file reg  
COST IN U.S. DOLLARS

	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.90	1.11

FILE 'REGISTRY' ENTERED AT 12:02:37 ON 10 JAN 2007  
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STRUCTURE FILE UPDATES: 9 JAN 2007 HIGHEST RN 917076-17-6  
DICTIONARY FILE UPDATES: 9 JAN 2007 HIGHEST RN 917076-17-6

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TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

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predicted properties as well as tags indicating availability of  
experimental property data in the original document. For information  
on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=> E "OXODODECANOYL HOMOSERINE "/CN 25  
E1 1 OXODIPHENYLSTANNANE/CN  
E2 1 OXODIPINE/CN  
E3 0 --> OXODODECANOYL HOMOSERINE /CN  
E4 1 OXODOLIN/CN  
E5 1 OXODUOCINE/CN  
E6 1 OXOEICOSAHYDROXYBIS(HYDROGEN OXALATO)OCTAZIRCONIUM OCTACHLORIDE,  
COMPD. WITH PYRIDINE/CN  
E7 1 OXOEICOSATETRAENOATE RECEPTOR (HUMAN NEUTROPHIL)/CN  
E8 1 OXOENOXACIN/CN  
E9 1 OXOEPISTEPHAMIERSINE/CN  
E10 1 OXOETHANOIC ACID/CN  
E11 1 OXOETHENYLIDENE/CN  
E12 1 OXOFANGCHIRINE/CN  
E13 1 OXOFARNOCHROL/CN  
E14 1 OXOFERIN/CN  
E15 1 OXOFERRATE ION (FE601614-)/CN  
E16 1 OXOFLACCIDIN/CN  
E17 1 OXOFLACCIDIN DIACETATE/CN  
E18 1 OXOFLAVIDIN/CN  
E19 1 OXOFLAVIDIN DIACETATE/CN  
E20 1 OXOFLAVIDIN DIMETHYL ETHER/CN  
E21 1 OXOFLAVIDININ/CN  
E22 1 OXOFEROXACIN/CN

E23 1 OXOFORMYCIN/CN  
E24 1 OXOFORMYCIN A/CN  
E25 1 OXOFORMYCIN B/CN

=> Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1642BJF

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TERMINAL (ENTER 1, 2, 3, OR ?):2

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=> s 13 not py>2003  
3716318 PY>2003  
L4 2 L3 NOT PY>2003

=> d ibib 1-2

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 2003:778671 CAPLUS  
DOCUMENT NUMBER: 139:306377  
TITLE: The *Pseudomonas aeruginosa* autoinducer  
N-3-oxododecanoyl homoserine lactone  
accelerates apoptosis in macrophages and  
neutrophils  
AUTHOR(S): Tateda, Kazuhiro; Ishii, Yoshikazu; Horikawa, Manabu;  
Matsumoto, Tetsuya; Miyairi, Shinichi; Pechere, Jean  
Claude; Standiford, Theodore J.; Ishiguro, Masaji;  
Yamaguchi, Keizo  
CORPORATE SOURCE: Department of Microbiology, Toho University School of  
Medicine, Tokyo, Japan  
SOURCE: Infection and Immunity (2003), 71(10), 5785-5793  
CODEN: INFIBR; ISSN: 0019-9567  
PUBLISHER: American Society for Microbiology  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
REFERENCE COUNT: 50 THERE ARE 50 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 2001:721658 CAPLUS  
DOCUMENT NUMBER: 136:2547  
TITLE: Interaction and division of bacterial cells  
AUTHOR(S): Kaca, Wieslaw; Amano, Kenichi  
CORPORATE SOURCE: Cent. Microbiol. Virol., PAS, Lodz, 90-232, Pol.  
SOURCE: Postepy Mikrobiologii (2001), 40(1), 31-41  
CODEN: PMKMAV; ISSN: 0079-4252  
PUBLISHER: Polskie Towarzystwo Mikrobiologow  
DOCUMENT TYPE: Journal; General Review  
LANGUAGE: English  
REFERENCE COUNT: 65 THERE ARE 65 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d kwic 2

L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN  
AB degradation by a PBP complex. The cell division is driven by signals  
from other bacterial cells. Short peptides and N-acetyl  
homoserine lactones (AHLs) are signaling mols. The  
coordinated behavior of bacterial populations may allow looking on them as  
multicellular organisms. By influencing the host cell activities (i.e.,  
apoptosis), bacterial mols. are also important in diseases.

=> d ibib abs 2

L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 2001:721658 CAPLUS  
DOCUMENT NUMBER: 136:2547  
TITLE: Interaction and division of bacterial cells  
AUTHOR(S): Kaca, Wieslaw; Amano, Kenichi  
CORPORATE SOURCE: Cent. Microbiol. Virol., PAS, Lodz, 90-232, Pol.  
SOURCE: Postepy Mikrobiologii (2001), 40(1), 31-41  
CODEN: PMKMAV; ISSN: 0079-4252  
PUBLISHER: Polskie Towarzystwo Mikrobiologow

DOCUMENT TYPE: Journal; General Review  
LANGUAGE: English  
AB A review with refs. on cell division and communication among bacterial cells. Bacterial division starts from the building of a septum by FtsZ proteins across the cell. The constriction of the cell is accompanied by peptidoglycan synthesis and degradation by a PBP complex. The cell division is driven by signals from other bacterial cells. Short peptides and N-acetyl homoserine lactones (AHLs) are signaling mols. The coordinated behavior of bacterial populations may allow looking on them as multicellular organisms. By influencing the host cell activities (i.e., apoptosis), bacterial mols. are also important in diseases.  
REFERENCE COUNT: 65 THERE ARE 65 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> s (interleukin () 8) or (IL () 8)  
154382 INTERLEUKIN  
5972 INTERLEUKINS  
156306 INTERLEUKIN  
(INTERLEUKIN OR INTERLEUKINS)  
2782066 8  
14523 INTERLEUKIN (W) 8  
121498 IL  
1240 ILS  
122352 IL  
(IL OR ILS)  
2782066 8  
11167 IL (W) 8  
L5 16218 (INTERLEUKIN (W) 8) OR (IL (W) 8)

=> d his

(FILE 'HOME' ENTERED AT 15:27:16 ON 10 JAN 2007)

FILE 'CAPLUS' ENTERED AT 15:27:41 ON 10 JAN 2007

L1 161314 S APOPT? OR (CELL DEATH)  
L2 1190 S ?HOMOSERINE LACTONE  
L3 15 S L2 (L) L1  
L4 2 S L3 NOT PY>2003  
L5 16218 S (INTERLEUKIN () 8) OR (IL () 8)

=> s 15 (L) 11  
L6 686 L5 (L) L1

=> s 16 not py>2002  
4771960 PY>2002  
L7 286 L6 NOT PY>2002

=> d kwic 1

L7 ANSWER 1 OF 286 CAPLUS COPYRIGHT 2007 ACS on STN  
AB . . . human defense, but also may contribute to the pathogenesis of various disorders. They are capable of causing tissue destruction and cell death. Neutrophilic inflammation is observed in patients with  $\alpha$ - proteinase inhibitor deficiency, bronchitis, emphysema, ARDS, COPD, re-perfusion injury, cystic fibrosis, acute. . . of the acute and chronic inflammatory response. NE perpetuates the cycle of inflammation by promoting the generation of chemoattractants, particularly interleukin-8 and leukotriene B4, which recruit more neutrophils into the tissue. The stimulation status of neutrophils in inflamed tissue can be. . .

=> s 11 and 12

L8 18 L1 AND L2

=> s 18 not py>2002  
4771960 PY>2002  
L9 1 L8 NOT PY>2002

=> d ibib

L9 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 2001:721658 CAPLUS  
DOCUMENT NUMBER: 136:2547  
TITLE: Interaction and division of bacterial cells  
AUTHOR(S): Kaca, Wieslaw; Amano, Kenichi  
CORPORATE SOURCE: Cent. Microbiol. Virol., PAS, Lodz, 90-232, Pol.  
SOURCE: Postepy Mikrobiologii (2001), 40(1), 31-41  
CODEN: PMKMAV; ISSN: 0079-4252  
PUBLISHER: Polskie Towarzystwo Mikrobiologow  
DOCUMENT TYPE: Journal; General Review  
LANGUAGE: English  
REFERENCE COUNT: 65 THERE ARE 65 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> file pctfull  
COST IN U.S. DOLLARS  
FULL ESTIMATED COST

	SINCE FILE ENTRY	TOTAL SESSION
	37.55	37.76

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)  
CA SUBSCRIBER PRICE

	SINCE FILE ENTRY	TOTAL SESSION
	-2.34	-2.34

FILE 'PCTFULL' ENTERED AT 15:32:39 ON 10 JAN 2007  
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FILE LAST UPDATED: 8 JAN 2007 <20070108/UP>  
MOST RECENT UPDATE WEEK: 200701 <200701/EW>  
FILE COVERS 1978 TO DATE

>>> IMAGES ARE AVAILABLE ONLINE AND FOR EMAIL-PRINTS <<<

>>> NEW IPC8 DATA AND FUNCTIONALITY NOW AVAILABLE IN THIS FILE.  
SEE  
[>>>](http://www.stn-international.de/stndatabases/details/ipc-reform.html)

=> s apopt? or (cell death)  
25485 APOPT?  
238544 CELL  
205255 CELLS  
270655 CELL  
(CELL OR CELLS)  
48279 DEATH  
8016 DEATHS  
51338 DEATH  
(DEATH OR DEATHS)  
20474 CELL DEATH  
(CELL(W) DEATH)  
L10 33437 APOPT? OR (CELL DEATH)

=> s ?homoserine lactone  
2662 ?HOMOSERINE  
9241 LACTONE  
5261 LACTONES  
12579 LACTONE  
(LACTONE OR LACTONES)

L11 360 ?HOMOSERINE LACTONE  
(?HOMOSERINE (W) LACTONE)

=> s l11 and l10  
L12 48 L11 AND L10

=> s l12 not py>2002  
489451 PY>2002  
L13 28 L12 NOT PY>2002

=> s oxododecanoyl  
L14 40 OXODODECANOYL

=> s l14 and l13  
L15 0 L14 AND L13

=> s l15 and l11  
L16 0 L15 AND L11

=> s l14 and l11  
L17 39 L14 AND L11

=> s l17 and l10  
L18 3 L17 AND L10

=> d ibib 1-3

L18 ANSWER 1 OF 3 PCTFULL COPYRIGHT 2007 Univentio on STN  
ACCESSION NUMBER: 2005094883 PCTFULL ED 20051018 EW 200541  
TITLE (ENGLISH): METHODS FOR INDUCING AUTOLYSIS IN INFECTIOUS BACTERIA  
TITLE (FRENCH): METHODES POUR INDUIRE UNE AUTOLYSE DANS DES BACTERIES  
INVENTOR(S): CHARLTON, Keith, Alan, Haptogen Ltd, Polwarth Building,  
Foresterhill, Aberdeen, Aberdeenshire AB25 2ZD, GB [GB,  
GB];  
PORTER, Andrew, Justin, Radcliffe, Haptogen Ltd,  
Polwarth Building, Foresterhill, Aberdeen,  
Aberdeenshire AB25 2ZD, GB [GB, GB];  
BROADBENT, Ian, Haptogen Ltd, Polwarth Building,  
Foresterhill, Aberdeen, Aberdeenshire AB25 2ZD, GB [GB,  
GB]  
PATENT ASSIGNEE(S): HAPTOGEN LTD, Polwarth Building, Foresterhill,  
Aberdeen, Aberdeenshire AB25 2ZD, GB [GB, GB], for all  
designates States except US;  
CHARLTON, Keith, Alan, Haptogen Ltd, Polwarth Building,  
Foresterhill, Aberdeen, Aberdeenshire AB25 2ZD, GB [GB,  
GB], for US only;  
PORTER, Andrew, Justin, Radcliffe, Haptogen Ltd,  
Polwarth Building, Foresterhill, Aberdeen,  
Aberdeenshire AB25 2ZD, GB [GB, GB], for US only;  
BROADBENT, Ian, Haptogen Ltd, Polwarth Building,  
Foresterhill, Aberdeen, Aberdeenshire AB25 2ZD, GB [GB,  
GB], for US only  
AGENT: BASSIL, Nicholas, Charles\$, Kilburn & Strode, 20 Red  
Lion Street, London WC1R 4PJ\$, GB  
LANGUAGE OF FILING: English  
LANGUAGE OF PUBL.: English  
DOCUMENT TYPE: Patent  
PATENT INFORMATION:

NUMBER	KIND	DATE
WO 2005094883	A2	20051013

DESIGNATED STATES

W: AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO  
CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HR

HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV  
MA MD MG MK MN MW MX MZ NA NI NO NZ OM PG PH PL PT RO  
RU SC SD SE SG SK SL SM SY TJ TM TN TR TT TZ UA UG US  
UZ VC VN YU ZA ZM ZW

RW (ARIPO):

RW (EAPO):

RW (EPO):

RW (OAPI):

APPLICATION INFO.:

PRIORITY INFO.:

L18 ANSWER 2 OF 3

ACCESSION NUMBER:

TITLE (ENGLISH):

TITLE (FRENCH):

INVENTOR(S):

PATENT ASSIGNEE(S):

AGENT:

LANGUAGE OF FILING:

LANGUAGE OF PUBL.:

DOCUMENT TYPE:

PATENT INFORMATION:

PCTFULL COPYRIGHT 2007 Univentio on STN  
20030375654 PCTFULL ED 20030926 EW 200338  
TREATMENT OF SURFACES POPULATED BY BACTERIA  
TRAITEMENT DE SURFACES PEUPLEES DE BACTERIES  
PRITCHARD, David, Idris, 83 Breach Field Road,  
Barrow-upon-Soar, Leicester LE12 8NN, GB [GB, GB]  
THE UNIVERSITY OF NOTTINGHAM, University Park,  
Nottingham NG7 2RD, GB [GB, GB], for all designates  
States except US;  
PRITCHARD, David, Idris, 83 Breach Field Road,  
Barrow-upon-Soar, Leicester LE12 8NN, GB [GB, GB], for  
US only

WILKINSON, Stephen, John\$, Stevens, Hewlett & Perkins,  
1 St Augustine's Place, Bristol BS1 4UD\$, GB

English

English

Patent

NUMBER	KIND	DATE
WO 2003075654	A2	20030918

DESIGNATED STATES

W:

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR  
CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID  
IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD  
MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SC SD SE SG  
SK SL TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW  
GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

RW (ARIPO):

RW (EAPO):

RW (EPO):

RW (OAPI):

APPLICATION INFO.:

PRIORITY INFO.:

L18 ANSWER 3 OF 3

ACCESSION NUMBER:

2003026641 PCTFULL ED 20030410 EW 200314

TITLE (ENGLISH):

MODULATION OF STAT ACTIVITY

TITLE (FRENCH):

MODULATION DE L'ACTIVITE DE STAT

INVENTOR(S):

SHAW, Peter, 145 Harrow Road, Wollaton, Nottingham NG8 1FL, GB [GB, GB];  
PRITCHARD, Davi, University of Nottingham, Research Business Park, Nottingham NG7 2RD, GB [GB, GB];  
LI, Li, 6 Topliss Road, Beeston, Nottingham NG9 5AS, GB [GB, GB]

PATENT ASSIGNEE(S):

UNIVERSITY OF NOTTINGHAM, Research Business Unit, University Park, Nottingham NG7 2RD, GB [GB, GB], for all designates States except US;  
SHAW, Peter, 145 Harrow Road, Wollaton, Nottingham NG8 1FL, GB [GB, GB], for US only;  
PRITCHARD, Davi, University of Nottingham, Research Business Park, Nottingham NG7 2RD, GB [GB, GB], for US only;

LI, Li, 6 Topliss Road, Beeston, Nottingham NG9 5AS, GB  
 [GB, GB], for US only  
 I.P.21 LIMITED\$, Norwich Research Park, Colney,  
 Norwich, Norfolk NR4 7UT\$, GB

AGENT:  
 LANGUAGE OF FILING: English  
 LANGUAGE OF PUBL.: English  
 DOCUMENT TYPE: Patent  
 PATENT INFORMATION:

	NUMBER	KIND	DATE
	WO 2003026641	A2	20030403

DESIGNATED STATES  
 W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR  
 CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID  
 IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD  
 MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI  
 SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW  
 GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW  
 RW (ARIPO): AM AZ BY KG KZ MD RU TJ TM  
 RW (EAPO): AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LU MC  
 RW (EPO): NL PT SE SK TR  
 RW (OAPI): BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG  
 APPLICATION INFO.: WO 2002-GB4232 A 20020917  
 PRIORITY INFO.: GB 2001-0122914.5 20010922

=> d his

(FILE 'HOME' ENTERED AT 15:27:16 ON 10 JAN 2007)

FILE 'CAPLUS' ENTERED AT 15:27:41 ON 10 JAN 2007

L1 161314 S APOPT? OR (CELL DEATH)  
 L2 1190 S ?HOMOSERINE LACTONE  
 L3 15 S L2 (L) L1  
 L4 2 S L3 NOT PY>2003  
 L5 16218 S (INTERLEUKIN () 8) OR (IL () 8)  
 L6 686 S L5 (L) L1  
 L7 286 S L6 NOT PY>2002  
 L8 18 S L1 AND L2  
 L9 1 S L8 NOT PY>2002

FILE 'PCTFULL' ENTERED AT 15:32:39 ON 10 JAN 2007

L10 33437 S APOPT? OR (CELL DEATH)  
 L11 360 S ?HOMOSERINE LACTONE  
 L12 48 S L11 AND L10  
 L13 28 S L12 NOT PY>2002  
 L14 40 S OXODODECANOYL  
 L15 0 S L14 AND L13  
 L16 0 S L15 AND L11  
 L17 39 S L14 AND L11  
 L18 3 S L17 AND L10

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	14.16	51.92
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-2.34

FILE 'CAPLUS' ENTERED AT 15:36:09 ON 10 JAN 2007

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FILE COVERS 1907 - 10 Jan 2007 VOL 146 ISS 3  
FILE LAST UPDATED: 9 Jan 2007 (20070109/ED)

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<http://www.cas.org/infopolicy.html>

=> s us 20040229944/pn  
L19 1 US 20040229944/PN  
(US2004229944/PN)

=> sel rn  
E1 THROUGH E9 ASSIGNED

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.56	54.48
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-2.34

FILE 'REGISTRY' ENTERED AT 15:36:26 ON 10 JAN 2007  
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DICTIONARY FILE UPDATES: 9 JAN 2007 HIGHEST RN 917076-17-6

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=> s e1-9  
1 142243-02-5/BI  
(142243-02-5/RN)  
1 143537-62-6/BI

(143537-62-6/RN)  
1 148640-14-6/BI  
    (148640-14-6/RN)  
1 155215-87-5/BI  
    (155215-87-5/RN)  
1 165245-96-5/BI  
    (165245-96-5/RN)  
1 168982-69-2/BI  
    (168982-69-2/RN)  
1 2185-02-6/BI  
    (2185-02-6/RN)  
1 2185-03-7/BI  
    (2185-03-7/RN)  
1 67605-85-0/BI  
    (67605-85-0/RN)  
L20 9 (142243-02-5/BI OR 143537-62-6/BI OR 148640-14-6/BI OR 155215-87-5/BI OR 165245-96-5/BI OR 168982-69-2/BI OR 2185-02-6/BI OR 2185-03-7/BI OR 67605-85-0/BI)

=> d rn hitstr  
'HITSTR' IS NOT A VALID FORMAT FOR FILE 'REGISTRY'

The following are valid formats:

Substance information can be displayed by requesting individual fields or predefined formats. The predefined substance formats are: (RN = CAS Registry Number)

REG	- RN
SAM	- Index Name, MF, and structure - no RN
FIDE	- All substance data, except sequence data
IDE	- FIDE, but only 50 names
SQIDE	- IDE, plus sequence data
SQIDE3	- Same as SQIDE, but 3-letter amino acid codes are used
SQD	- Protein sequence data, includes RN
SQD3	- Same as SQD, but 3-letter amino acid codes are used
SQN	- Protein sequence name information, includes RN
CALC	- Table of calculated properties
EPROP	- Table of experimental properties
PROP	- EPROP and CALC

Any CA File format may be combined with any substance format to obtain CA references citing the substance. The substance formats must be cited first. The CA File predefined formats are:

ABS	-- Abstract
APPS	-- Application and Priority Information
BIB	-- CA Accession Number, plus Bibliographic Data
CAN	-- CA Accession Number
CBIB	-- CA Accession Number, plus Bibliographic Data (compressed)
IND	-- Index Data
IPC	-- International Patent Classification
PATS	-- PI, SO
STD	-- BIB, IPC, and NCL
IABS	-- ABS, indented, with text labels
IBIB	-- BIB, indented, with text labels
ISTD	-- STD format, indented
OBIB	----- AN, plus Bibliographic Data (original)
OIBIB	----- OBIB, indented with text labels
SBIB	----- BIB, no citations
SIBIB	----- IBIB, no citations

The ALL format gives FIDE BIB ABS IND RE, plus sequence data when it is available.

The MAX format is the same as ALL.

The IALL format is the same as ALL with BIB ABS and IND indented, with text labels.

For additional information, please consult the following help messages:

HELP DFIELDS -- To see a complete list of individual display fields.

HELP FORMATS -- To see detailed descriptions of the predefined formats.

ENTER DISPLAY FORMAT (IDE):end

=> d 120 1-9

L20 ANSWER 1 OF 9 REGISTRY COPYRIGHT 2007 ACS on STN

RN 168982-69-2 REGISTRY

ED Entered STN: 17 Oct 1995

CN Dodecanamide, 3-oxo-N-[(3S)-tetrahydro-2-oxo-3-furanyl]- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Dodecanamide, 3-oxo-N-(tetrahydro-2-oxo-3-furanyl)-, (S)-

OTHER NAMES:

CN n-(3-Oxododecanoyl) L-homoserine lactone

CN N-(3-Oxododecanoyl)homoserine lactone

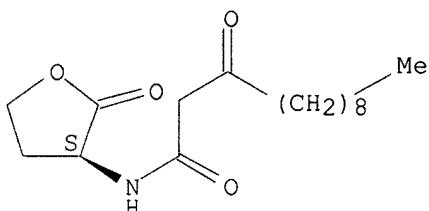
FS STEREOSEARCH

MF C16 H27 N O4

SR CA

LC STN Files: BIOSIS, CA, CAPLUS, CASREACT, TOXCENTER, USPAT2, USPATFULL

Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

148 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

150 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L20 ANSWER 2 OF 9 REGISTRY COPYRIGHT 2007 ACS on STN

RN 165245-96-5 REGISTRY

ED Entered STN: 26 Jul 1995

CN Kinase (phosphorylating), protein, RK (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 20: PN: WO2006059323 PAGE: 14 claimed sequence

CN CSBP

CN CSBP kinase

CN CSBP/p38 kinase

CN Cytokine synthesis anti-inflammatory drug-binding protein

CN EhHOG MAP kinase

CN High-osmolarity glycerol response kinase

CN Hog1 MAP kinase

CN MAP kinase Hog1p

CN Mitogen-activated protein kinase 14

CN Mitogen-activated protein kinase Mxi2  
CN P38 kinase  
CN p38 MAP kinase  
CN p38 MAPK  
CN p38 Mitogen-activated kinase  
CN p38 Mitogen-activated protein kinase  
CN P38 protein kinase  
CN P38-2 mitogen-activated protein kinase  
CN p38 $\alpha$  MAP kinase  
CN p38 $\alpha$  Mitogen-activated protein kinase  
CN p38/RK  
CN Protein kinase HOG1  
CN Protein kinase p38/HOG  
CN Protein kinase p38/HOG1  
CN Protein kinase p38mapk  
CN Protein kinase p38SAPK2  
CN Protein kinase RK  
CN Protein kinase SAPK2a  
CN Protein p38 $\alpha$  kinase  
CN Reactivating kinase  
CN SAPK2a/p38 kinase  
CN Stress-activated protein kinase p38 $\alpha$   
CN Stress-activated protein kinase-2a  
CN Stress-activated-protein kinase-2  
DR 185402-48-6, 185464-66-8  
MF Unspecified  
CI COM, MAN  
SR CA  
LC STN Files: ADISNEWS, AGRICOLA, BIOSIS, CA, CAPLUS, CASREACT, CIN, PROMT,  
TOXCENTER, USPAT2, USPATFULL

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

10373 REFERENCES IN FILE CA (1907 TO DATE)  
247 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
10431 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L20 ANSWER 3 OF 9 REGISTRY COPYRIGHT 2007 ACS on STN  
RN 155215-87-5 REGISTRY  
ED Entered STN: 20 May 1994  
CN Kinase (phosphorylating), gene c-jun protein N-terminal (9CI) (CA INDEX  
NAME)

OTHER NAMES:

CN c-Jun amino-terminal kinase  
CN c-Jun amino-terminal protein kinase  
CN c-Jun kinase  
CN c-Jun N-terminal kinase  
CN c-Jun N-terminal protein kinase  
CN c-Jun protein N-terminal kinase  
CN Gene c-jun protein kinase  
CN JNK  
CN JNK kinase  
CN JNK protein kinase  
CN Jun kinase  
CN JUN N-terminal kinase  
CN Jun NH2-terminal kinase  
CN Jun-NH2 kinase  
CN Protein kinase JNK  
CN Protein kinase sapk1  
CN Protein kinase SAPK1 $\gamma$   
CN SAP kinase  
CN SAPK $\gamma$  kinase  
CN SAPK/JNK kinase

CN Stress-activated protein kinase  
CN Stress-activated protein kinase- $\gamma$   
DR 177893-53-7, 143180-76-1  
MF Unspecified  
CI MAN  
SR CA  
LC STN Files: ADISNEWS, AGRICOLA, BIOSIS, BIOTECHNO, CA, CAPLUS, CIN,  
EMBASE, PROMT, TOXCENTER, USPAT2, USPATFULL

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

7735 REFERENCES IN FILE CA (1907 TO DATE)

151 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

7767 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L20 ANSWER 4 OF 9 REGISTRY COPYRIGHT 2007 ACS on STN

RN 148640-14-6 REGISTRY

ED Entered STN: 14 Jul 1993

CN Kinase (phosphorylating), protein, Akt (9CI) (CA INDEX NAME)

OTHER NAMES:

CN Akt kinase

CN Akt protein kinase

CN Akt/PKB protein kinase

CN Akt/protein kinase B

CN Akt/Rac protein kinase

CN Akt1 kinase

CN Gene c-akt protein kinase

CN Kinase (phosphorylating), gene c-akt protein

CN Protein kinase akt

CN Protein kinase Akt/PKB

CN Protein kinase Akt1

CN Protein kinase B

CN Rac kinase

CN RAC protein kinase

CN Rac-1 protein kinase

CN Serine-threonine protein kinase Akt

CN Serine/threonine kinase Akt

CN Serine/threonine kinase AKT1

CN Serine/threonine kinase B

CN Serine/threonine protein kinase B

DR 165245-98-7

MF Unspecified

CI MAN

SR CA

LC STN Files: AGRICOLA, ANABSTR, BIOSIS, BIOTECHNO, CA, CAPLUS, CHEMLIST,  
CIN, EMBASE, PROMT, TOXCENTER, USPAT2, USPATFULL

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

10200 REFERENCES IN FILE CA (1907 TO DATE)

476 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

10278 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L20 ANSWER 5 OF 9 REGISTRY COPYRIGHT 2007 ACS on STN

RN 143537-62-6 REGISTRY

ED Entered STN: 18 Sep 1992

CN Hexanamide, 3-oxo-N-[(3S)-tetrahydro-2-oxo-3-furanyl]- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Hexanamide, 3-oxo-N-(tetrahydro-2-oxo-3-furanyl)-, (S)-

OTHER NAMES:

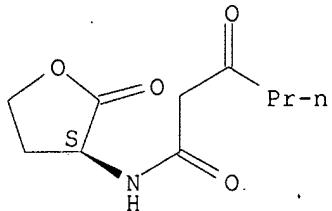
CN L-3-Oxo-hexanoyl-homoserine lactone

CN N-(3-Oxohexanoyl)-L-homoserine lactone

CN N- $\beta$ -Oxohexanoyl-L-homoserine lactone

FS STEREOSEARCH  
MF C10 H15 N O4  
SR CA  
LC STN Files: BIOSIS, CA, CAPLUS, CASREACT, CHEMCATS, CSCHEM, TOXCENTER,  
USPAT2, USPATFULL

Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

150 REFERENCES IN FILE CA (1907 TO DATE)  
2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
152 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L20 ANSWER 6 OF 9 REGISTRY COPYRIGHT 2007 ACS on STN  
RN 142243-02-5 REGISTRY  
ED Entered STN: 08 Jul 1992  
CN Kinase (phosphorylating), mitogen-activated protein (9CI) (CA INDEX NAME)  
OTHER NAMES:  
CN ERK  
CN ERK kinase  
CN Erk receptor tyrosine kinase  
CN ERK/MAP kinase  
CN Extracellular signal-regulated kinase  
CN Extracellular signal-regulated protein kinase  
CN Gene ERK protein kinase  
CN MAP kinase  
CN MAP/ERK kinase  
CN MAPK  
CN Mitogen-activated protein kinase  
CN p43 MAP kinase  
CN p43 Mitogen-activated protein kinase  
CN p45 MAP kinase  
DR 133876-94-5, 141349-99-7, 141350-00-7, 141616-09-3  
MF Unspecified  
CI MAN  
SR CA  
LC STN Files: ADISNEWS, AGRICOLA, BIOSIS, BIOTECHNO, CA, CAPLUS, CIN,  
EMBASE, PROMT, TOXCENTER, USPAT2, USPATFULL

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

12086 REFERENCES IN FILE CA (1907 TO DATE)  
96 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
12162 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L20 ANSWER 7 OF 9 REGISTRY COPYRIGHT 2007 ACS on STN  
RN 67605-85-0 REGISTRY  
ED Entered STN: 16 Nov 1984  
CN Butanamide, N-[(3S)-tetrahydro-2-oxo-3-furanyl]- (9CI) (CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN Butanamide, N-(tetrahydro-2-oxo-3-furanyl)-, (S)-

OTHER NAMES:

CN N-Butanoyl-L-homoserine lactone

CN N-Butyryl-L-homoserine lactone

CN PAI

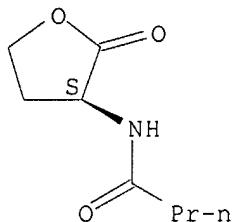
FS STEREOSEARCH

MF C8 H13 N O3

LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN\*, BIOSIS, CA, CAPLUS, CASREACT, CHEMCATS, SPECINFO, TOXCENTER, USPAT2, USPATFULL

(\*File contains numerically searchable property data)

Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

158 REFERENCES IN FILE CA (1907 TO DATE)

159 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L20 ANSWER 8 OF 9 REGISTRY COPYRIGHT 2007 ACS on STN

RN 2185-03-7 REGISTRY

ED Entered STN: 16 Nov 1984

CN 2(3H)-Furanone, 3-aminodihydro-, hydrochloride, (3S)- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2(3H)-Furanone, 3-aminodihydro-, hydrochloride, (S)-

OTHER NAMES:

CN (S)-Homoserine lactone hydrochloride

CN L-Homoserine lactone hydrochloride

FS STEREOSEARCH

MF C4 H7 N O2 . Cl H

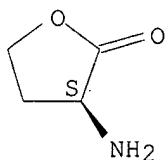
LC STN Files: BEILSTEIN\*, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CSCHEM, TOXCENTER, USPAT2, USPATFULL  
(\*File contains numerically searchable property data)

Other Sources: EINECS\*\*

(\*\*Enter CHEMLIST File for up-to-date regulatory information)

CRN (2185-02-6)

Absolute stereochemistry. Rotation (-).



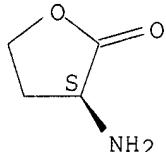
● HCl

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

66 REFERENCES IN FILE CA (1907 TO DATE)  
66 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L20 ANSWER 9 OF 9 REGISTRY COPYRIGHT 2007 ACS on STN  
RN 2185-02-6 REGISTRY  
ED Entered STN: 16 Nov 1984  
CN 2(3H)-Furanone, 3-aminodihydro-, (3S)- (9CI) (CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN 2(3H)-Furanone, 3-aminodihydro-, (S)-  
CN 2(3H)-Furanone, 3-aminodihydro-, L- (8CI)  
OTHER NAMES:  
CN ((S)-2-Oxotetrahydrofuran-3-yl)amine  
CN L- $\alpha$ -Aminobutyrolactone  
CN L-Homoserine  $\gamma$ -lactone  
CN L-Homoserine lactone  
FS STEREOSEARCH  
MF C4 H7 N O2  
CI COM  
LC STN Files: AGRICOLA, BEILSTEIN\*, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CSCHEM, SYNTHLINE, TOXCENTER, USPAT2, USPATFULL  
(\*File contains numerically searchable property data)

Absolute stereochemistry. Rotation (-).



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

135 REFERENCES IN FILE CA (1907 TO DATE)  
77 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
137 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
3 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> file caplus			
COST IN U.S. DOLLARS	SINCE FILE	TOTAL	
	ENTRY	SESSION	
FULL ESTIMATED COST	19.35	73.83	
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL	
	ENTRY	SESSION	
CA SUBSCRIBER PRICE	0.00	-2.34	

FILE 'CAPLUS' ENTERED AT 15:39:03 ON 10 JAN 2007  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.  
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FILE COVERS 1907 - 10 Jan 2007 VOL 146 ISS 3  
FILE LAST UPDATED: 9 Jan 2007 (20070109/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/infopolicy.html>

=> s 120 1,5,7

MISSING OPERATOR L20 1,5,7

The search profile that was entered contains terms or nested terms that are not separated by a logical operator.

=> s 120 1

MISSING OPERATOR L20 1

The search profile that was entered contains terms or nested terms that are not separated by a logical operator.

=> s 67605-85-0

REGISTRY INITIATED

Substance data SEARCH and crossover from CAS REGISTRY in progress...

Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

L22 159 L21

=> s (143537-62-6 or 168982-69-2)/rn

152 143537-62-6

2 143537-62-6D

151 143537-62-6/RN

(143537-62-6 (NOTL) 143537-62-6D )

150 168982-69-2

1 168982-69-2D

149 168982-69-2/RN

(168982-69-2 (NOTL) 168982-69-2D.)

L23 255 (143537-62-6 OR 168982-69-2)/RN

=> s 123 or 122

L24 315 L23 OR L22

=> s cancer or tumor or neoplas?

302427 CANCER

44281 CANCERS

313875 CANCER

(CANCER OR CANCERS)

394494 TUMOR

153878 TUMORS

443224 TUMOR

(TUMOR OR TUMORS)

476602 NEOPLAS?

L25 747127 CANCER OR TUMOR OR NEOPLAS?

=> s 125 and 124

L26 12 L25 AND L24

=> s 126 not py>2002

4771960 PY>2002  
L27 2 L26 NOT PY>2002

=> d ibib 1-2

L27 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 1998:7802 CAPLUS  
DOCUMENT NUMBER: 128:113981  
TITLE: The *Pseudomonas aeruginosa* quorum-sensing signal molecule N-(3-oxododecanoyl)-L-homoserine lactone has immunomodulatory activity  
AUTHOR(S): Telford, Gary; Wheeler, D.; Williams, Paul; Tomkins, P. T.; Appleby, P.; Sewell, Herbert; Stewart, Gordon S. A. B.; Bycroft, Barrie W.; Pritchard, David I.  
CORPORATE SOURCE: Department of Life Science, University of Nottingham, University Park, Nottingham, NG7 2RD, UK  
SOURCE: Infection and Immunity (1998), 66(1), 36-42  
CODEN: INFIBR; ISSN: 0019-9567  
PUBLISHER: American Society for Microbiology  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
REFERENCE COUNT: 35 THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L27 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 1993:251291 CAPLUS  
DOCUMENT NUMBER: 118:251291  
TITLE: Agrobacterium conjugation and gene regulation by N-acyl-L-homoserine lactones  
AUTHOR(S): Zhang, Lianhui; Murphy, Peter J.; Kerr, Allen; Tate, Max E.  
CORPORATE SOURCE: Waite Agric. Res. Inst., Univ. Adelaide, Glen Osmond, 5064, Australia  
SOURCE: Nature (London, United Kingdom) (1993), 362(6419), 446-8  
CODEN: NATUAS; ISSN: 0028-0836  
DOCUMENT TYPE: Journal  
LANGUAGE: English

=> d kwic 1-2

L27 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN  
AB . . . lactone (OHHL) were evaluated in murine and human leukocyte immunoassays in vitro. OdDHL, but not OHHL, inhibited lymphocyte proliferation and tumor necrosis factor  $\alpha$  production by lipopolysaccharide-stimulated macrophages. Furthermore, OdDHL simultaneously and potently down-regulated the production of IL-12, a Th1-supportive cytokine. . .  
IT Interleukin 12  
Tumor necrosis factors  
RL: BSU (Biological study, unclassified); MFM (Metabolic formation); BIOL (Biological study); FORM (Formation, nonpreparative)  
(*Pseudomonas aeruginosa* quorum-sensing signal mol. L-homoserine lactone has immunomodulatory activity)  
IT 143537-62-6 168982-69-2  
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)  
(*Pseudomonas aeruginosa* quorum-sensing signal mol. L-homoserine lactone has immunomodulatory activity)

L27 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN  
AB Conjugal opines secreted by crown gall tumors induce strains of *Agrobacterium tumefaciens* that are donors of Ti plasmids to produce a diffusible conjugation factor. This enhances the. . .

IT 143537-62-6 147795-40-2 147852-83-3 147852-84-4  
RL: BAC (Biological activity or effector, except adverse); BSU (Biological  
study, unclassified); BIOL (Biological study)  
(conjugation of Agrobacterium tumefaciens response to)

=> d his

(FILE 'HOME' ENTERED AT 15:27:16 ON 10 JAN 2007)

FILE 'CAPLUS' ENTERED AT 15:27:41 ON 10 JAN 2007

L1 161314 S APOPT? OR (CELL DEATH)  
L2 1190 S ?HOMOSERINE LACTONE  
L3 15 S L2 (L) L1  
L4 2 S L3 NOT PY>2003  
L5 16218 S (INTERLEUKIN () 8) OR (IL () 8)  
L6 686 S L5 (L) L1  
L7 286 S L6 NOT PY>2002  
L8 18 S L1 AND L2  
L9 1 S L8 NOT PY>2002

FILE 'PCTFULL' ENTERED AT 15:32:39 ON 10 JAN 2007

L10 33437 S APOPT? OR (CELL DEATH)  
L11 360 S ?HOMOSERINE LACTONE  
L12 48 S L11 AND L10  
L13 28 S L12 NOT PY>2002  
L14 40 S OXODODECANOYL  
L15 0 S L14 AND L13  
L16 0 S L15 AND L11  
L17 39 S L14 AND L11  
L18 3 S L17 AND L10

FILE 'CAPLUS' ENTERED AT 15:36:09 ON 10 JAN 2007

L19 1 S US 20040229944/PN  
SEL RN

FILE 'REGISTRY' ENTERED AT 15:36:26 ON 10 JAN 2007

L20 9 S E1-9

FILE 'CAPLUS' ENTERED AT 15:39:03 ON 10 JAN 2007  
S 67605-85-0/REG#

FILE 'REGISTRY' ENTERED AT 15:40:24 ON 10 JAN 2007  
L21 1 S 67605-85-0/RN

FILE 'CAPLUS' ENTERED AT 15:40:24 ON 10 JAN 2007  
L22 159 S L21  
L23 255 S (143537-62-6 OR 168982-69-2)/RN  
L24 315 S L23 OR L22  
L25 747127 S CANCER OR TUMOR OR NEOPLAS?  
L26 12 S L25 AND L24  
L27 2 S L26 NOT PY>2002

=> s 124 and 11

L28 11 S L24 AND L1

=> s 128 not py>2003

3716318 PY>2003  
L29 2 S L28 NOT PY>2003

=> d ibib 1-2

L29 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 2003:778671 CAPLUS  
DOCUMENT NUMBER: 139:306377

TITLE: The *Pseudomonas aeruginosa* autoinducer N-3-oxododecanoyl homoserine lactone accelerates apoptosis in macrophages and neutrophils

AUTHOR(S): Tateda, Kazuhiro; Ishii, Yoshikazu; Horikawa, Manabu; Matsumoto, Tetsuya; Miyairi, Shinichi; Pechere, Jean Claude; Standiford, Theodore J.; Ishiguro, Masaji; Yamaguchi, Keizo

CORPORATE SOURCE: Department of Microbiology, Toho University School of Medicine, Tokyo, Japan

SOURCE: Infection and Immunity (2003), 71(10), 5785-5793

CODEN: INFIBR; ISSN: 0019-9567

PUBLISHER: American Society for Microbiology

DOCUMENT TYPE: Journal

LANGUAGE: English

REFERENCE COUNT: 50 THERE ARE 50 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L29 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 2003:369403 CAPLUS  
DOCUMENT NUMBER: 138:378843  
TITLE: Modulation effects of azithromycin for bacterial factors  
AUTHOR(S): Tateda, Kazuhiro; Ishii, Yoshikazu; Yamaguchi, Keizo  
CORPORATE SOURCE: Sch. Med., Toho Univ., Japan  
SOURCE: Japanese Journal of Antibiotics (2003), Volume Date 2002, 56(Suppl. A, Makuroraido no Shinsayo Kenkyu), 20-24  
CODEN: JJANAX; ISSN: 0368-2781  
PUBLISHER: Japan Antibiotics Research Association  
DOCUMENT TYPE: Journal  
LANGUAGE: Japanese

=> d 129 ibib abs kwic 2

L29 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 2003:369403 CAPLUS  
DOCUMENT NUMBER: 138:378843  
TITLE: Modulation effects of azithromycin for bacterial factors  
AUTHOR(S): Tateda, Kazuhiro; Ishii, Yoshikazu; Yamaguchi, Keizo  
CORPORATE SOURCE: Sch. Med., Toho Univ., Japan  
SOURCE: Japanese Journal of Antibiotics (2003), Volume Date 2002, 56(Suppl. A, Makuroraido no Shinsayo Kenkyu), 20-24  
CODEN: JJANAX; ISSN: 0368-2781  
PUBLISHER: Japan Antibiotics Research Association  
DOCUMENT TYPE: Journal  
LANGUAGE: Japanese

AB Prolonged incubation of *Pseudomonas* in macrolide-containing media, erythromycin, clarithromycin and azithromycin (AZM) demonstrated bactericidal effect on *Pseudomonas* at sub-MIC level. Repression of protein synthesis of the *Pseudomonas* was suggested as the mechanism of the bactericidal effect. AZM repressed the production of elastase and rhamnolipid. AZM repressed the expression of the genes involved in quorum-sensing system. Results were discussed in relation to the action of macrolides on *Pseudomonas* in airway infection.

IT Apoptosis  
(generation of, by HSL; modulation effects of azithromycin for bacterial factors)

IT 67605-85-0, N-(Butanoyl)-L-homoserine lactone 168982-69-2  
, N-[3-Oxododecanoyl]-L-homoserine lactone

RL: BSU (Biological study, unclassified); BIOL (Biological study)  
(modulation effects of azithromycin for bacterial factors)

=> d his

(FILE 'HOME' ENTERED AT 15:27:16 ON 10 JAN 2007)

FILE 'CAPLUS' ENTERED AT 15:27:41 ON 10 JAN 2007

L1 161314 S APOPT? OR (CELL DEATH)  
L2 1190 S ?HOMOSERINE LACTONE  
L3 15 S L2 (L) L1  
L4 2 S L3 NOT PY>2003  
L5 16218 S (INTERLEUKIN () 8) OR (IL () 8)  
L6 686 S L5 (L) L1  
L7 286 S L6 NOT PY>2002  
L8 18 S L1 AND L2  
L9 1 S L8 NOT PY>2002

FILE 'PCTFULL' ENTERED AT 15:32:39 ON 10 JAN 2007

L10 33437 S APOPT? OR (CELL DEATH)  
L11 360 S ?HOMOSERINE LACTONE  
L12 48 S L11 AND L10  
L13 28 S L12 NOT PY>2002  
L14 40 S OXODODECANOYL  
L15 0 S L14 AND L13  
L16 0 S L15 AND L11  
L17 39 S L14 AND L11  
L18 3 S L17 AND L10

FILE 'CAPLUS' ENTERED AT 15:36:09 ON 10 JAN 2007

L19 1 S US 20040229944/PN  
SEL RN

FILE 'REGISTRY' ENTERED AT 15:36:26 ON 10 JAN 2007

L20 9 S E1-9

FILE 'CAPLUS' ENTERED AT 15:39:03 ON 10 JAN 2007

S 67605-85-0/REG#

FILE 'REGISTRY' ENTERED AT 15:40:24 ON 10 JAN 2007

L21 1 S 67605-85-0/RN

FILE 'CAPLUS' ENTERED AT 15:40:24 ON 10 JAN 2007

L22 159 S L21  
L23 255 S (143537-62-6 OR 168982-69-2) /RN  
L24 315 S L23 OR L22  
L25 747127 S CANCER OR TUMOR OR NEOPLAS?  
L26 12 S L25 AND L24  
L27 2 S L26 NOT PY>2002  
L28 11 S L24 AND L1  
L29 2 S L28 NOT PY>2003

=> s l24 and 15

L30 4 L24 AND L5

=> d ibib 1-4

L30 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2006:1113320 CAPLUS

TITLE: *Pseudomonas aeruginosa autoinducer modulates host cell responses through calcium signalling*

AUTHOR(S): Shiner, E. K.; Terentyev, D.; Bryan, A.; Sennoune, S.; Martinez-Zagulian, R.; Li, G.; Gyorke, S.; Williams, S. C.; Rumbaugh, K. P.

CORPORATE SOURCE: Department of Microbiology, Texas Tech University Health Sciences Center, Lubbock, TX, 79430, USA

SOURCE: *Cellular Microbiology* (2006), 8(10), 1601-1610

PUBLISHER: CODEN: CEMIF5; ISSN: 1462-5814  
Blackwell Publishing Ltd.  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
REFERENCE COUNT: 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L30 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 2006:1055994 CAPLUS  
DOCUMENT NUMBER: 145:354553  
TITLE: Induction of neutrophil chemotaxis by the quorum-sensing molecule N-(3-oxododecanoyl)-L-homoserine lactone  
AUTHOR(S): Zimmermann, Sabine; Wagner, Christof; Mueller, Wencke; Brenner-Weiss, Gerald; Hug, Friederike; Prior, Birgit; Obst, Ursula; Haensch, Gertrud Maria  
CORPORATE SOURCE: Institut fuer Immunologie der Universitaet Heidelberg, Heidelberg, Germany  
SOURCE: Infection and Immunity (2006), 74(10), 5687-5692  
PUBLISHER: CODEN: INFIBR; ISSN: 0019-9567  
American Society for Microbiology  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
REFERENCE COUNT: 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L30 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 2002:135509 CAPLUS  
DOCUMENT NUMBER: 137:199307  
TITLE: Detection of *Pseudomonas aeruginosa* cell-to-cell signals in lung tissue of cystic fibrosis patients  
AUTHOR(S): Favre-Bonte, Sabine; Pache, Jean-Claude; Robert, John; Blanc, Dominique; Pechere, Jean-Claude; van Delden, Christian  
CORPORATE SOURCE: Department of Genetics and Microbiology, University Hospital Geneva, Geneva, CH-1211, Switz.  
SOURCE: Microbial Pathogenesis (2002), 32(3), 143-147  
PUBLISHER: CODEN: MIPAEV; ISSN: 0882-4010  
Elsevier Science  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L30 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 2001:471002 CAPLUS  
DOCUMENT NUMBER: 135:209777  
TITLE: IL-8 production in human lung fibroblasts and epithelial cells activated by the *Pseudomonas* autoinducer N-3-oxododecanoyl homoserine lactone is transcriptionally regulated by NF- $\kappa$ B and activator protein-2  
AUTHOR(S): Smith, Roger S.; Fedyk, Eric R.; Springer, T. A.; Mukaida, N.; Iglewski, Barbara H.; Phipps, Richard P.  
CORPORATE SOURCE: Department of Microbiology and Immunology, University of Rochester School of Medicine and Dentistry, Rochester, NY, 14642, USA  
SOURCE: Journal of Immunology (2001), 167(1), 366-374  
PUBLISHER: CODEN: JOIMA3; ISSN: 0022-1767  
American Association of Immunologists  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
REFERENCE COUNT: 52 THERE ARE 52 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d ibib abs kwic 2

L30 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 2006:1055994 CAPLUS  
DOCUMENT NUMBER: 145:354553  
TITLE: Induction of neutrophil chemotaxis by the  
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homoserine lactone  
AUTHOR(S): Zimmermann, Sabine; Wagner, Christof; Mueller, Wencke;  
Brenner-Weiss, Gerald; Hug, Friederike; Prior, Birgit;  
Obst, Ursula; Haensch, Gertrud Maria  
CORPORATE SOURCE: Institut fuer Immunologie der Universitaet Heidelberg,  
Heidelberg, Germany  
SOURCE: Infection and Immunity (2006), 74(10), 5687-5692  
CODEN: INFIBR; ISSN: 0019-9567  
PUBLISHER: American Society for Microbiology  
DOCUMENT TYPE: Journal  
LANGUAGE: English

AB Acyl homoserine lactones are synthesized by *Pseudomonas aeruginosa* as  
signaling mols. which control production of virulence factors and biofilm  
formation in a paracrine manner. The authors found that  
N-(3-oxododecanoyl)-L-homoserine lactone (3OC12-HSL), but not its 3-deoxo  
isomer or acyl-homoserine lactones with shorter fatty acids, induced the  
directed migration (chemotaxis) of human polymorphonuclear neutrophils  
(PMN) in vitro. By use of selective inhibitors a signaling pathway,  
comprising phosphotyrosine kinases, phospholipase C, protein kinase C, and  
mitogen-activated protein kinase C, could be delineated. In contrast to  
the well-studied chemokines complement C5a and interleukin  
8, the chemotaxis did not depend on pertussis toxin-sensitive G  
proteins, indicating that 3OC12-HSL uses another signaling pathway.  
Strong evidence for the presence of a receptor for 3OC12-HSL on PMN was  
derived from uptake studies; by use of radiolabeled 3OC12-HSL, specific  
and saturable binding to PMN was seen. Taken together, the authors' data  
provide evidence that PMN recognize and migrate toward a source of  
3OC12-HSL (i.e., to the site of a developing biofilm). The authors  
propose that this early attraction of PMN could contribute to prevention  
of biofilm formation.

REFERENCE COUNT: 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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of biofilm formation.

IT 168982-69-2, N-(3-Oxododecanoyl)-L-homoserine lactone  
RL: BSU (Biological study, unclassified); BIOL (Biological study)  
(neutrophil chemotaxis induction by quorum-sensing mol.  
N-(3-oxododecanoyl)-L-homoserine lactone)

=>

---Logging off of STN---

=>

Executing the logoff script...

=> LOG Y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	45.03	120.25
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-3.12	-5.46

STN INTERNATIONAL LOGOFF AT 15:47:17 ON 10 JAN 2007